

constituting the management information including information indicating an arrival time of a first packet of a first one of the data units; and

recording the stream data in the data area and the management information in the management area of the information medium.

21. (New) A method according to claim 20, further comprising the step of:

recording, in the management area, at least a time difference value corresponding to a difference between a first time stamp recorded in a first data unit and a second time stamp recorded in a second data unit, said first and second data units being included in the plurality of said data units.

22. (New) A method according to claim 21, further comprising the step of:

determining the time difference value by rounding to a predetermined number of effective digits a difference between a time information value corresponding to the second time stamp and a time information value corresponding to the first time stamp.

23. (New) A method according to claim 21, further comprising the step of:

computing the time difference value using a value of the first time stamp recorded in a first one of the data packets located in each of the data units.

24. (New) A method according to claim 21, further comprising the steps of:

recording a time stamp in one of the data packets at an end of a last one of the data units included in the stream data indicating an arrival time of a last one of the data packets in the last one of the data units; and

computing the time difference value using the arrival time of the last one of the data packets.

25. (New) A memory containing data structures for recording stream data, comprising:

B1
A1
C1

a data structure stored in said memory including,
a plurality of the data units included in the stream data,
each one of the plurality of data units including one or more data packets which
record time stamp information, and
management information including information indicating an arrival time of a first
packet of a first one of the plurality of data units, wherein
the memory is a memory device which has a data area for recording the stream data
using the one or more data packets, each one of the plurality of data units being larger than
the one or more data packets, and a management area for recording the management
information that pertains to the stream data.

26. (New) A memory according to claim 25, wherein a time difference value
corresponding to a difference between a first time stamp recorded in a first data unit and a
second time stamp recorded in a second data unit is recorded in the management area, said
first and second data units being included in said plurality of data units.

27. (New) A memory according to claim 26, wherein the time difference value is
determined by rounding to a predetermined number of effective digits a difference between a
time information value corresponding to the second time stamp and a time information value
corresponding to the first time stamp.

28. (New) A memory according to claim 26, wherein a value of the first time stamp
recorded in a first one of the one or more data packets in the first data unit is used to compute
the time difference value.

29. (New) A memory according to claim 26, wherein a time stamp recorded
in one of the one or more data packets at an end of a last one of the plurality of data units
included in the stream data indicates an arrival time of a last one of the one or more data